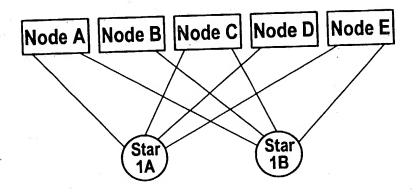
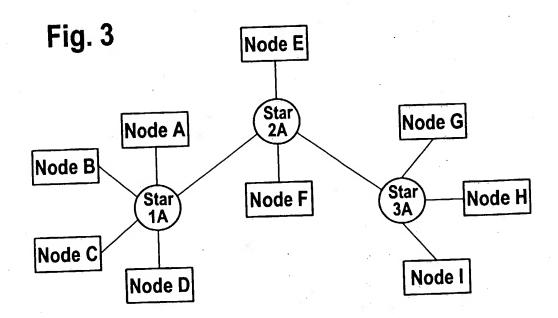


Fig. 2





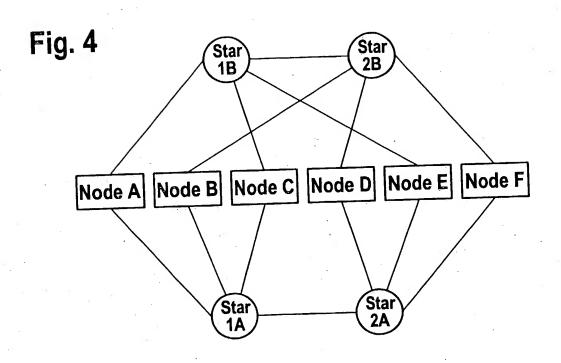


Fig. 5

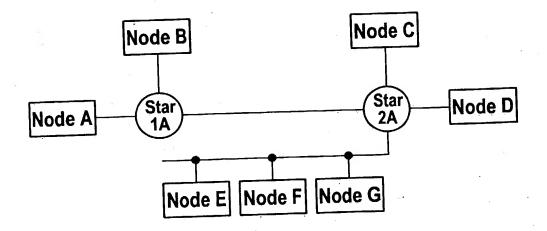


Fig. 6

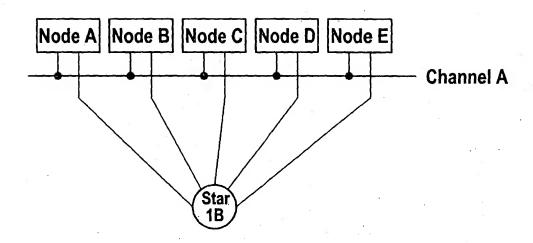


Fig. 7

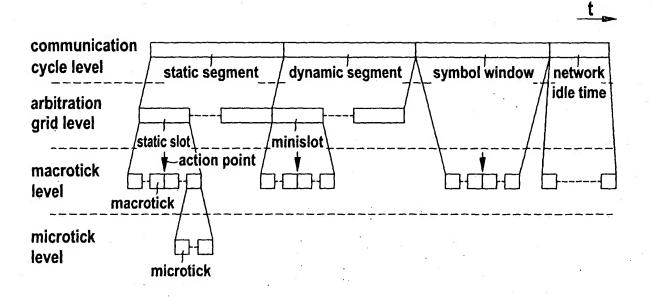


Fig. 8

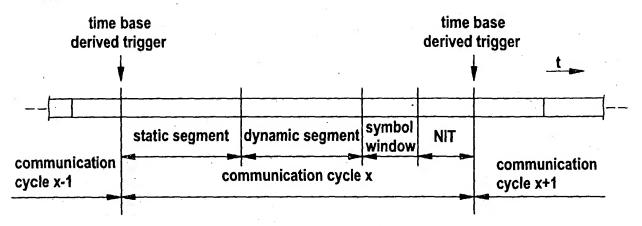


Fig. 9

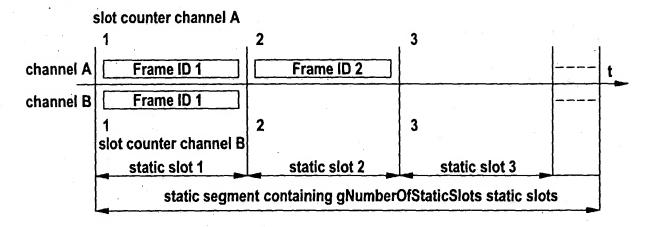


Fig. 10

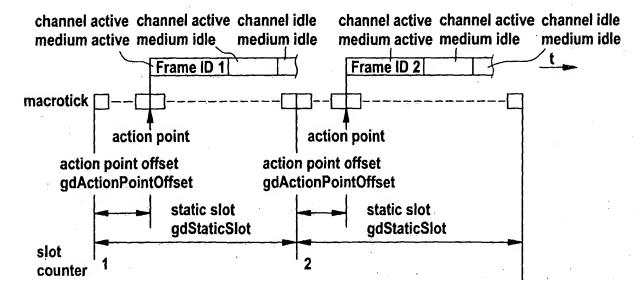
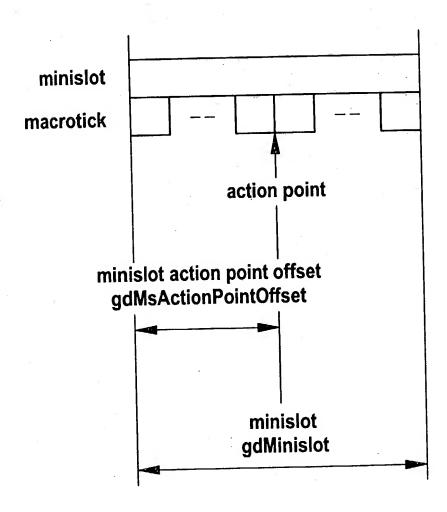


Fig. 1

Fig. 12



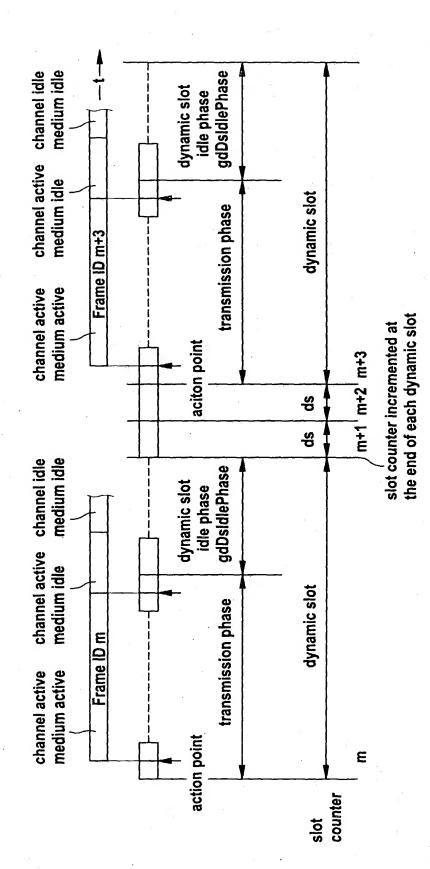


Fig. 13

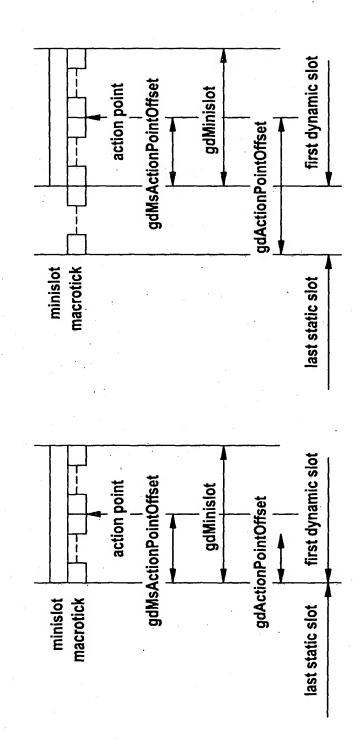


Fig. 1

Fig. 15

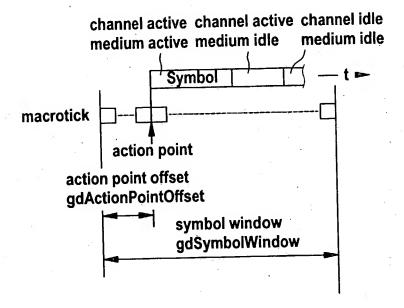
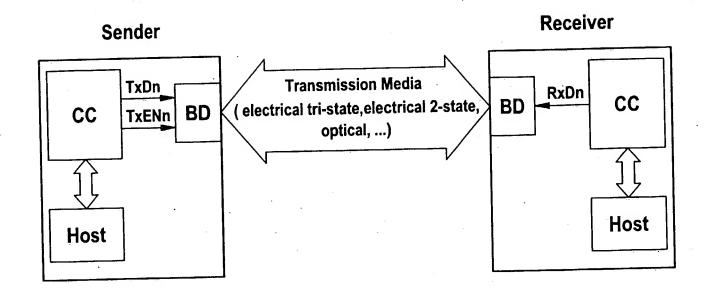
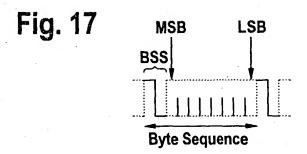
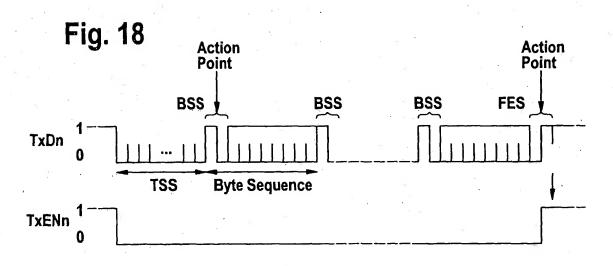
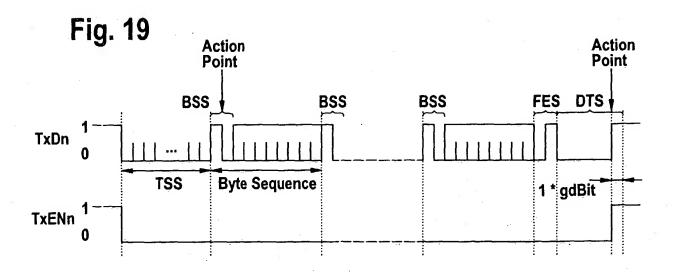


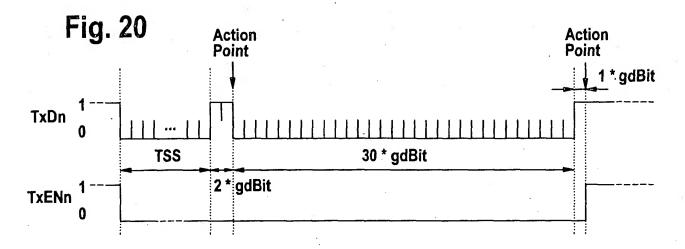
Fig. 16

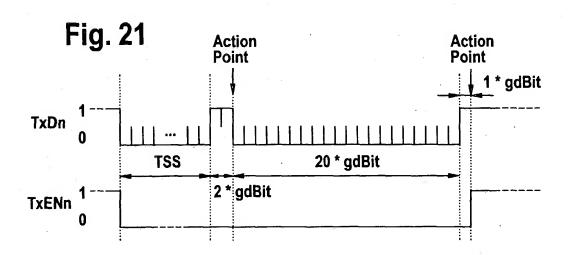












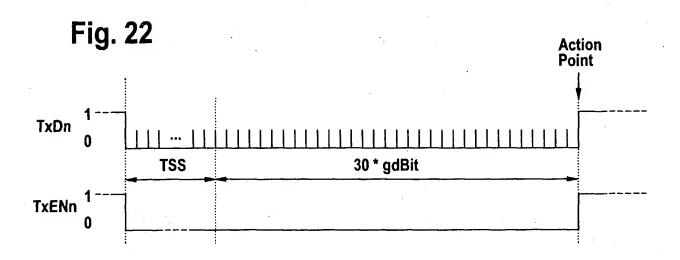


Fig. 23

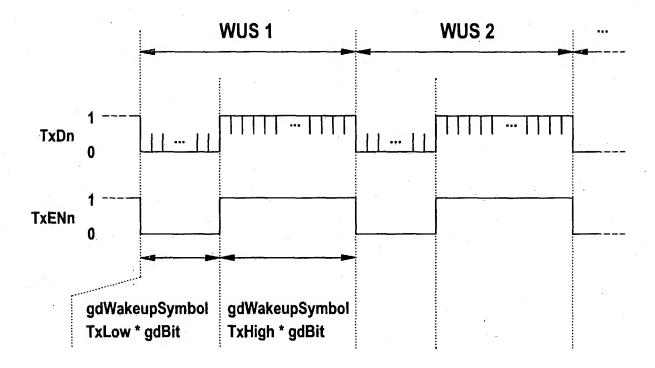


Fig. 24

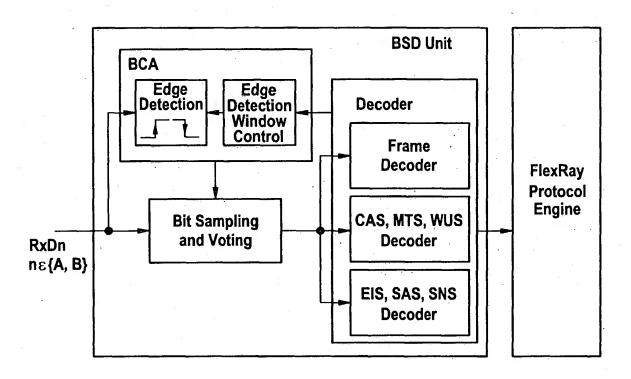


Fig. 25

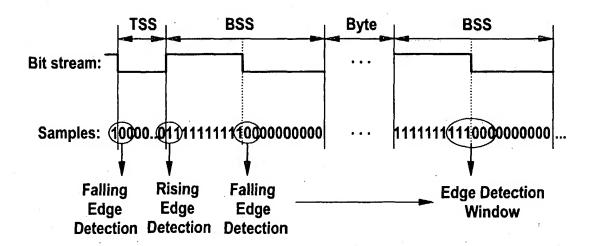


Fig. 26

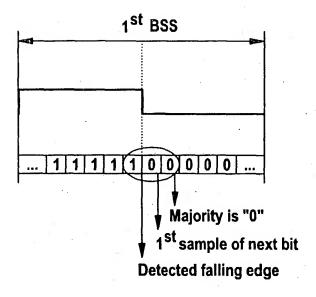


Fig. 27

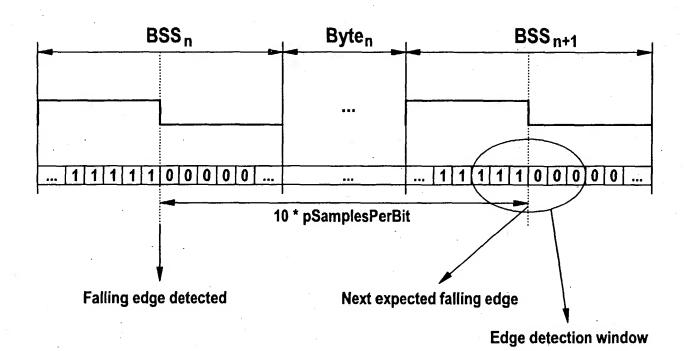
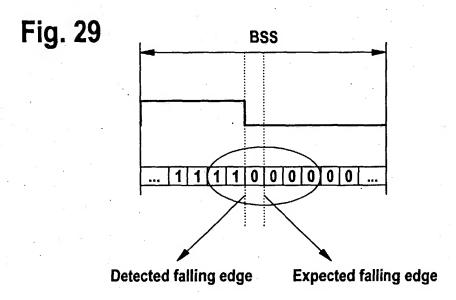


Fig. 28

BSS

... 1 1 1 1 1 0 0 0 0 0 ...

Expected falling edge Detected falling edge



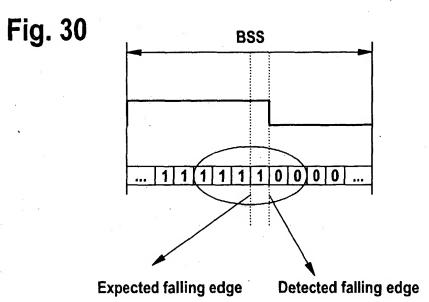
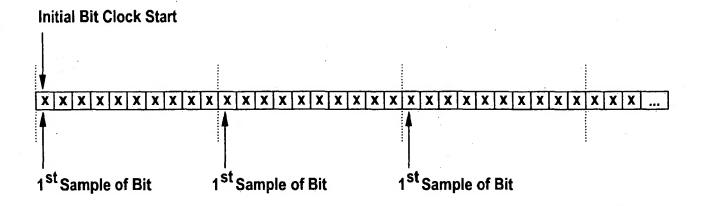


Fig. 31



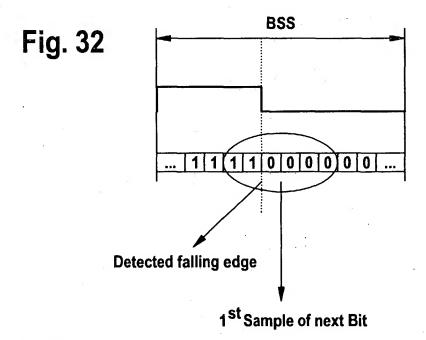


Fig. 33

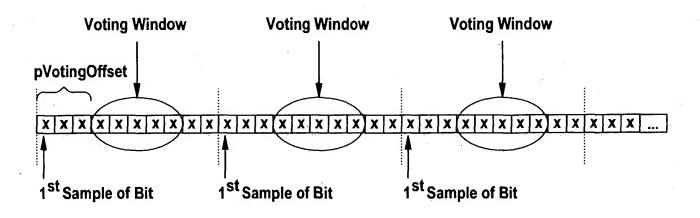


Fig. 34

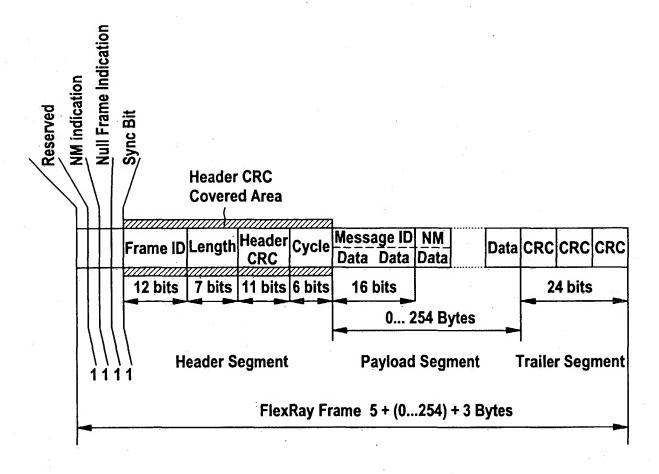


Fig. 35

D	Res	Len	Data	Data	Data		Data	CRC	CRC		
8 bits	4	4	012 Bytes					15 bits			1 bit (FCB)
Header Seg.			l	Payload Segment				Trailer Seg.			
byteflight Frame 2+ (012) + 2 Bytes										ļ	
-	-,-		*					-		٦	

Fig. 36

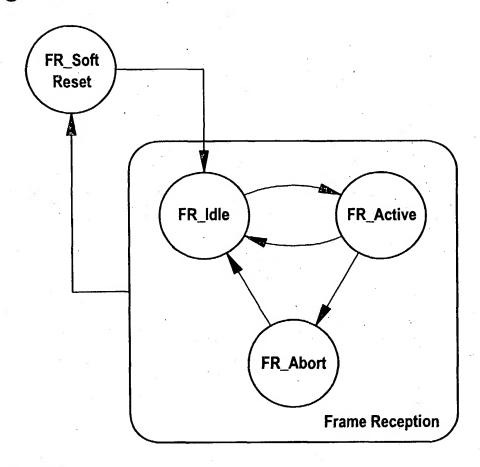


Fig. 37

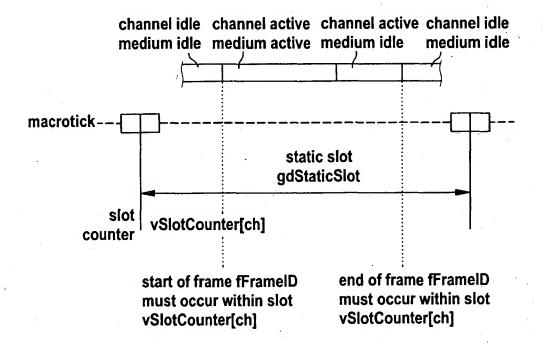


Fig. 38

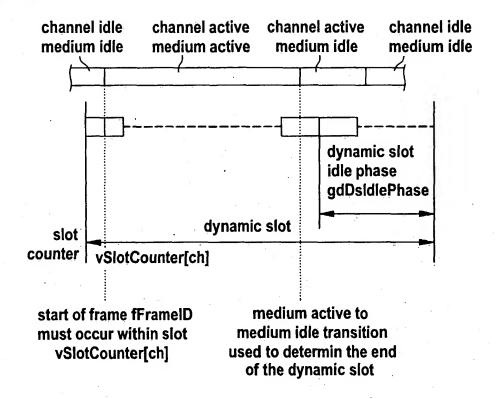
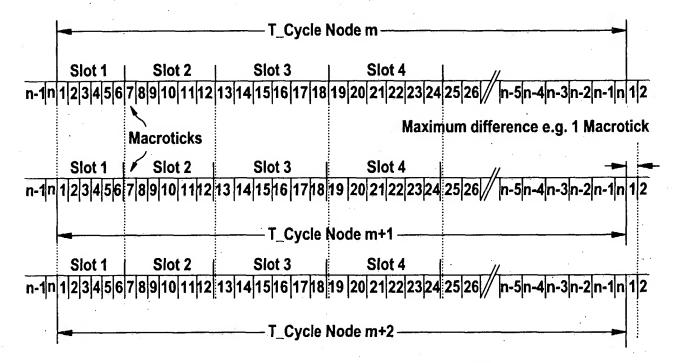
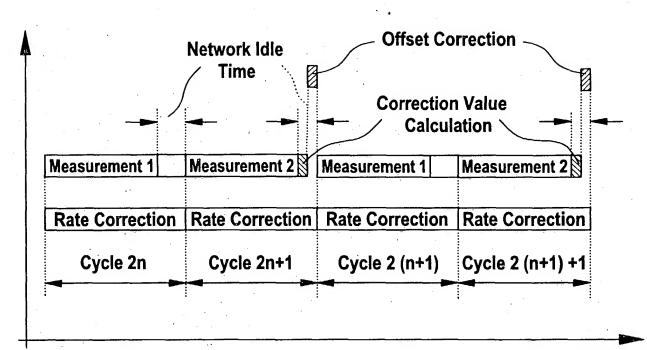


Fig. 39



n = number of Macroticks per cycle

Fig. 40



time

Fig. 41

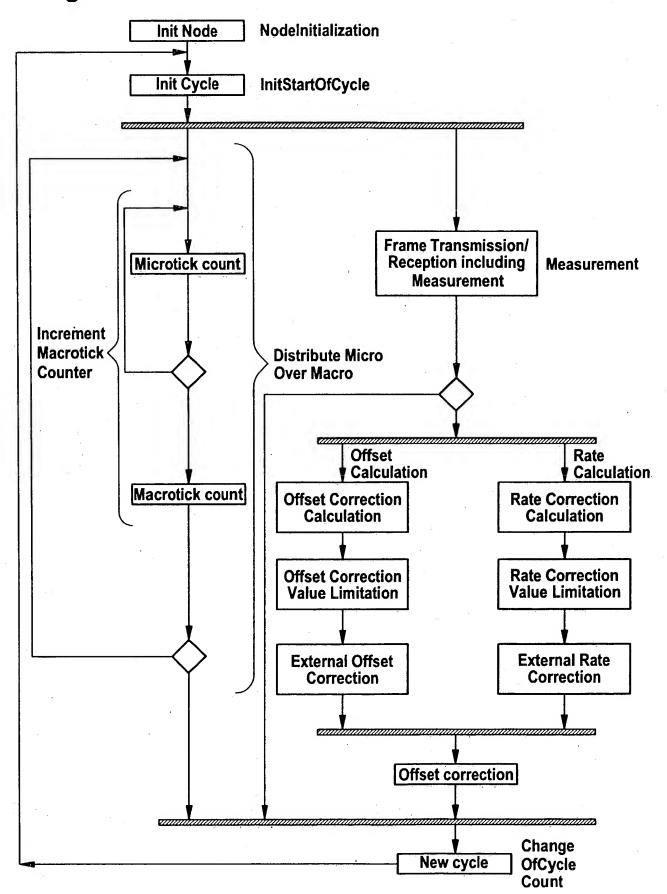
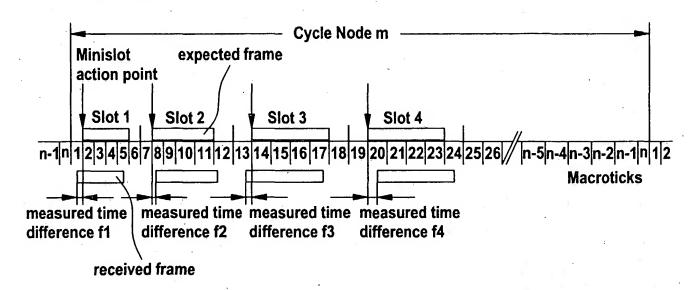


Fig. 42



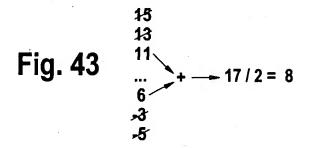
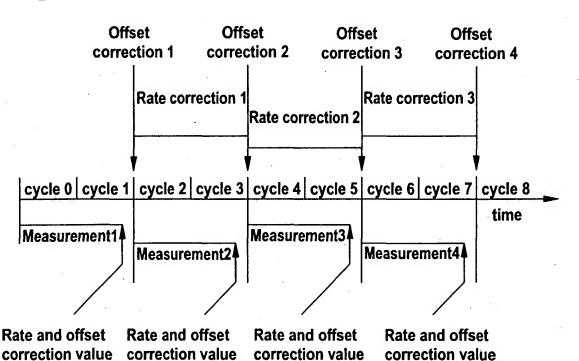


Fig. 44

calculation 1

calculation 2



calculation 3

calculation 4

Fig. 45

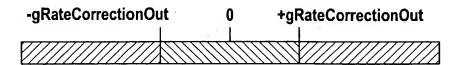
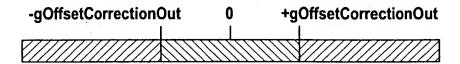


Fig. 46



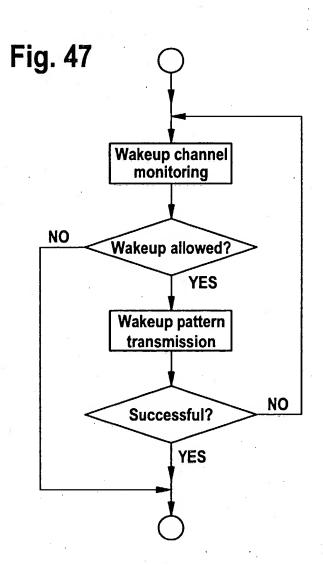


Fig. 48

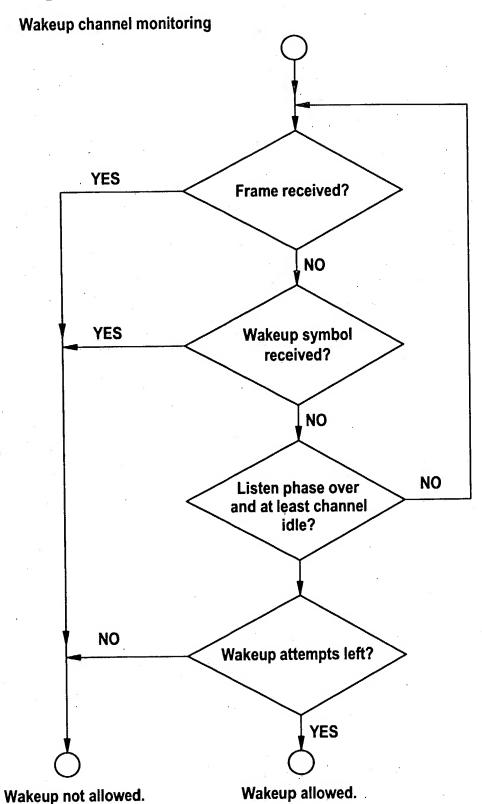


Fig. 49
Wakeup pattern transmission

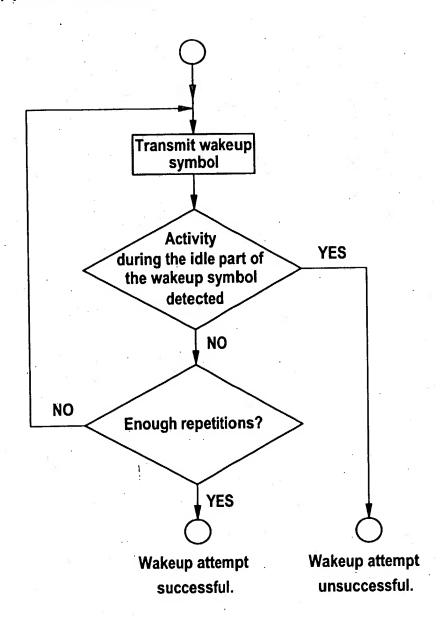
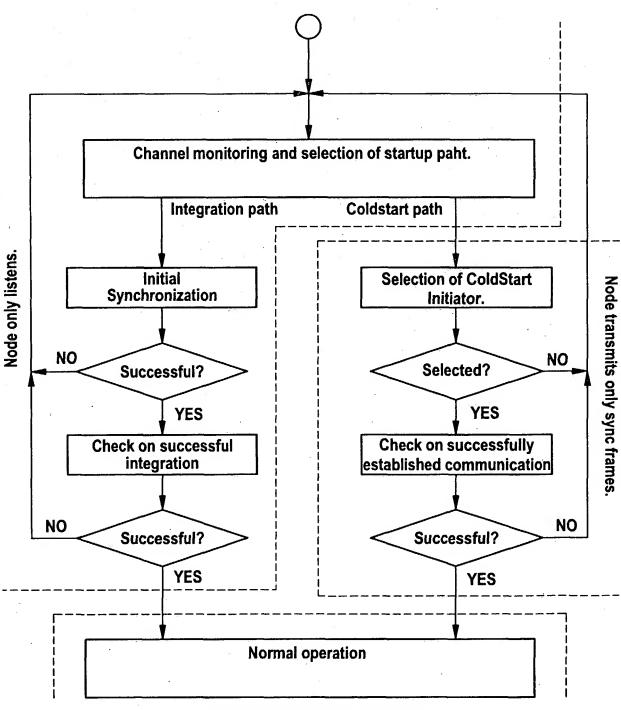


Fig. 50



Node communicates normally.

Fig. 51
Channel monitoring and selection of startup path.

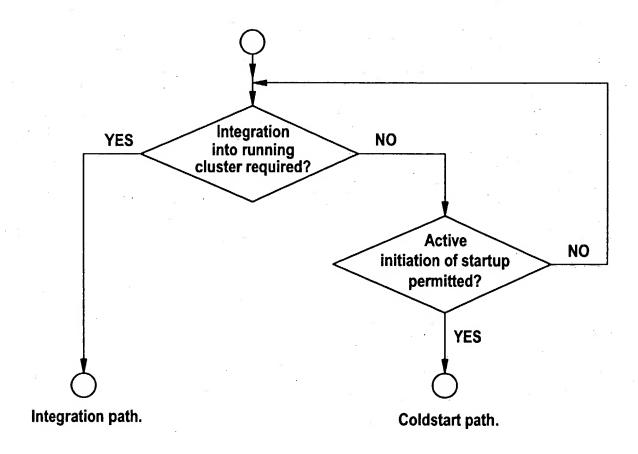


Fig. 52
Selection of ColdStart Initiator

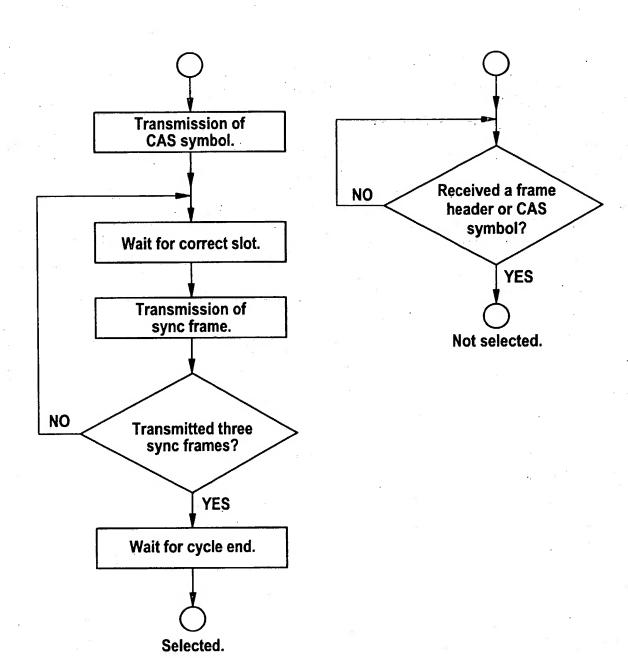


Fig. 53
Check on successfully established communication

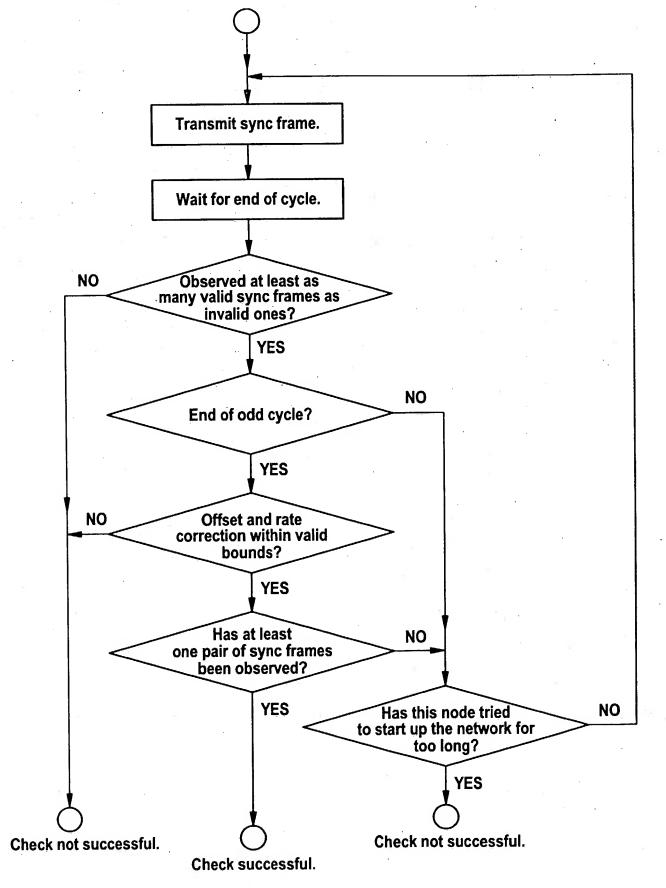
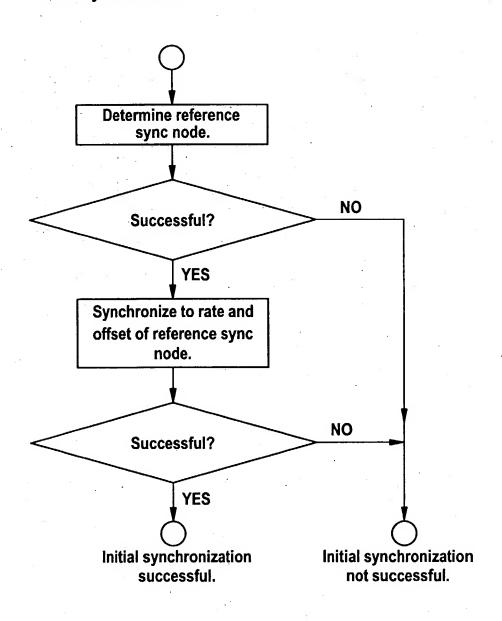
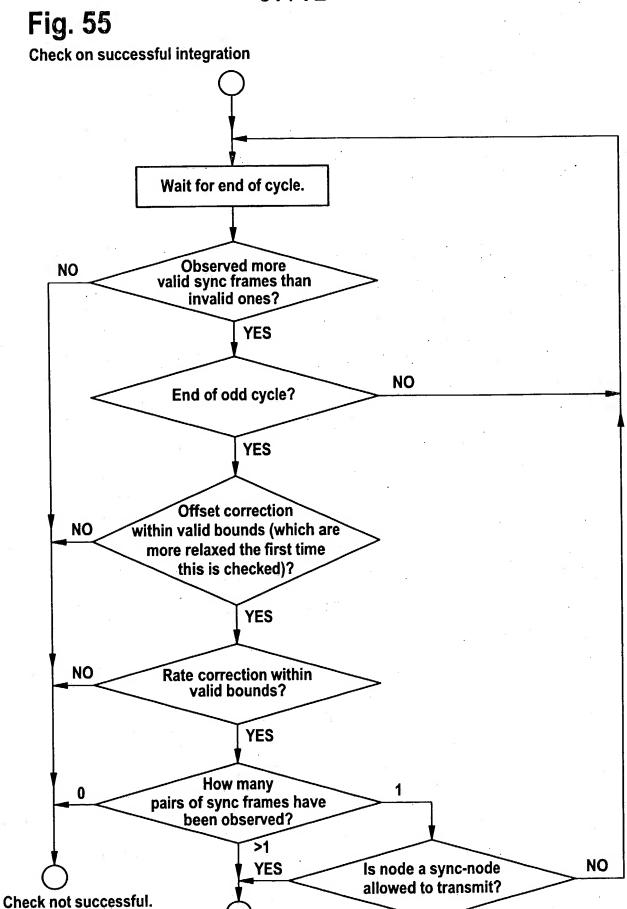


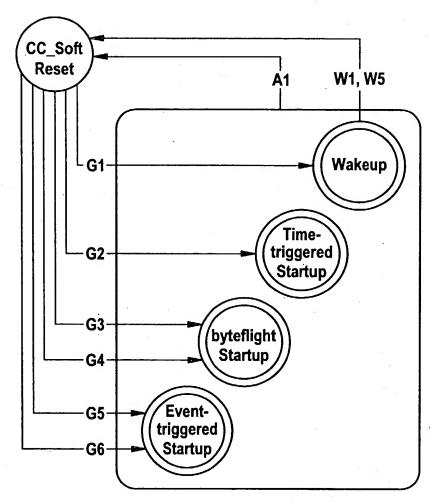
Fig. 54
Initial Synchronization





Check successful.

Fig. 56



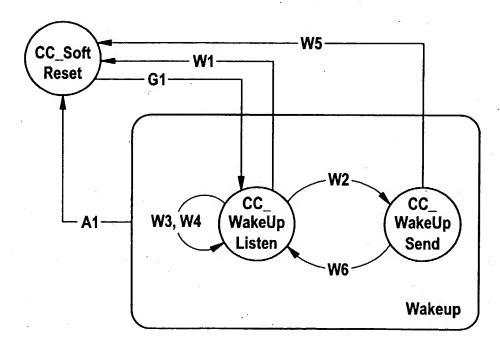
Wakeup state machine for the wakeup (WU) protocol mode

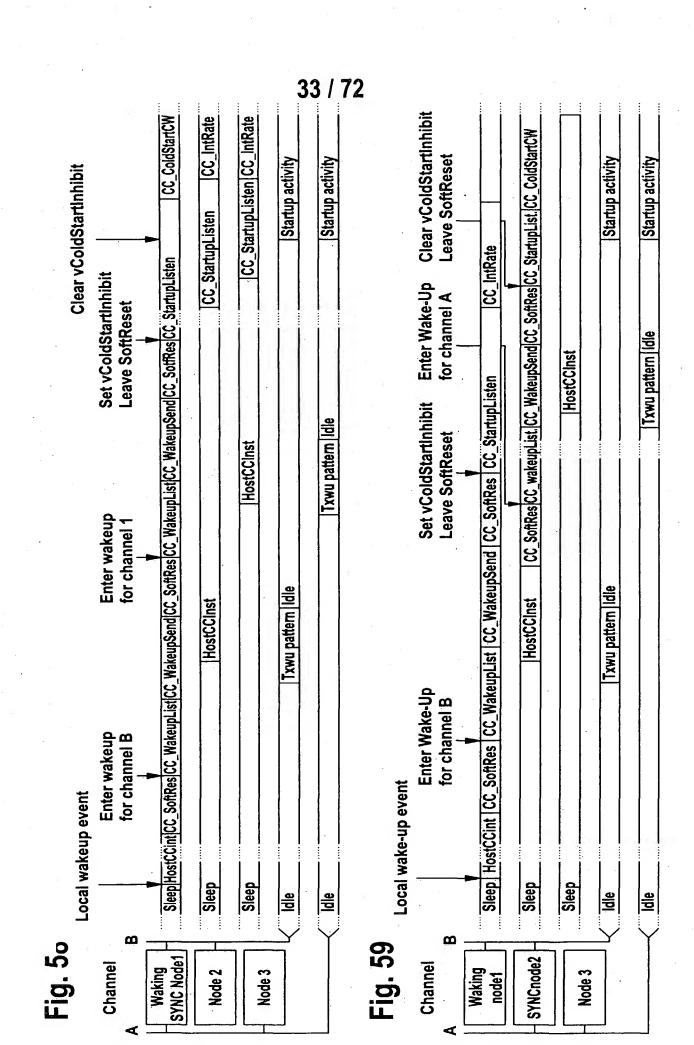
Startup state machine for the time-triggered (TT-D, TT-M) protocol modes

Startup state machine for the byteflight (BF) protocol mode

Startup state machine for the event-triggered (ET) protocol mode

Fig. 57





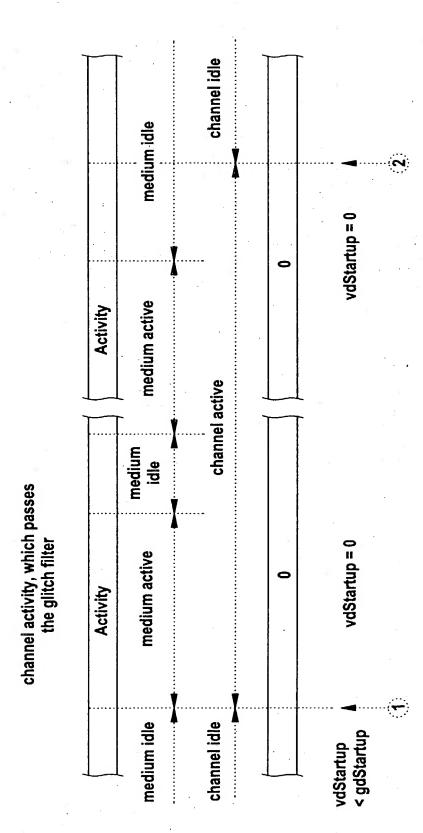


Fig. 60

Fig. 61

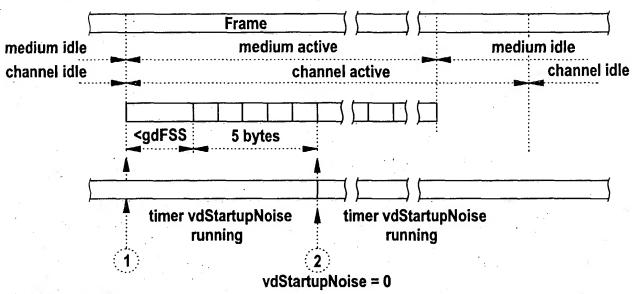


Fig. 62

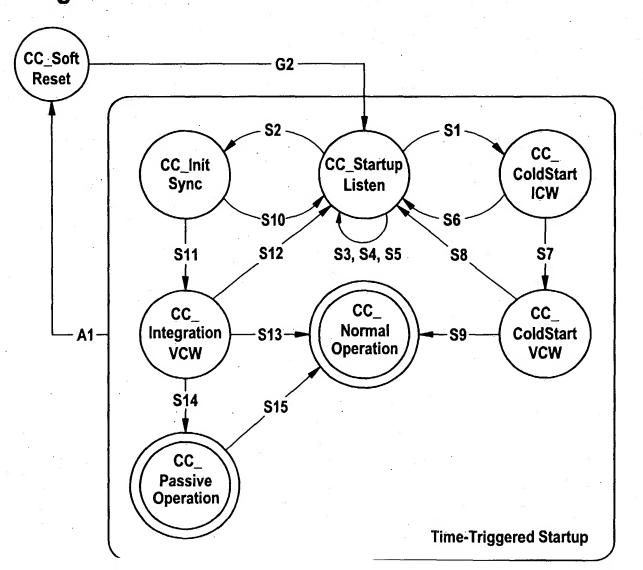


Fig. 63

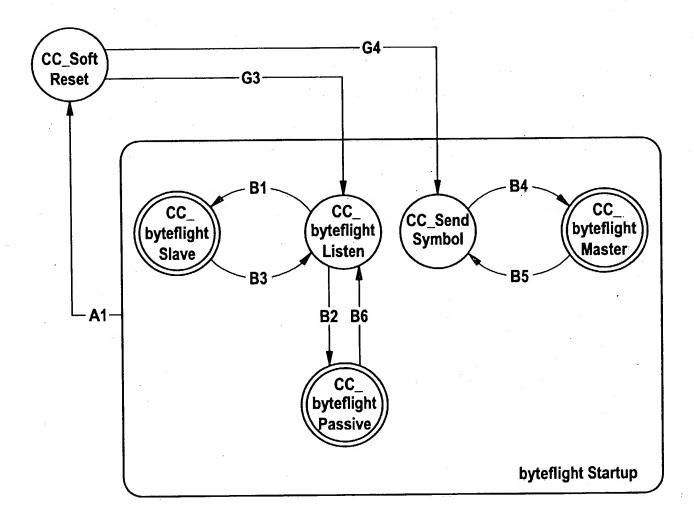


Fig. 64

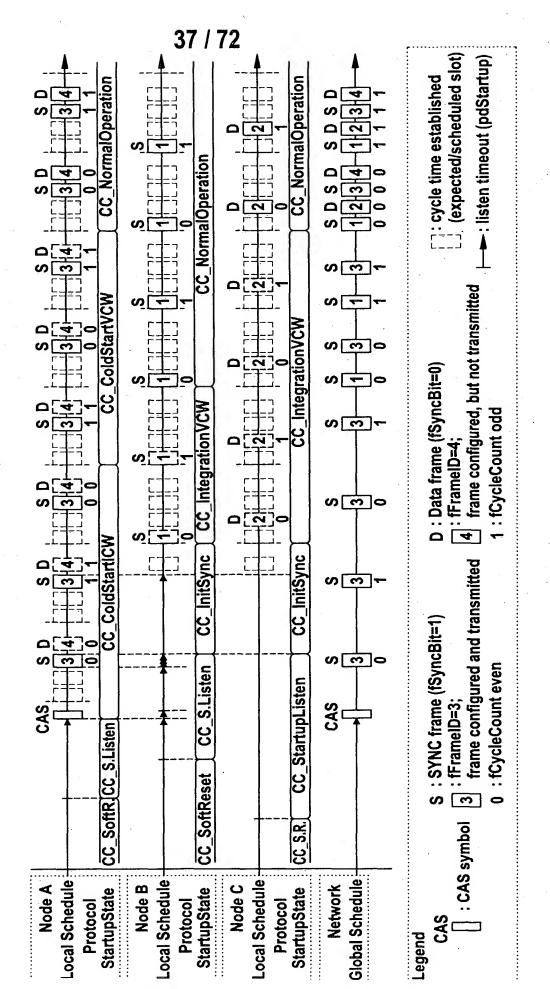


Fig. 6

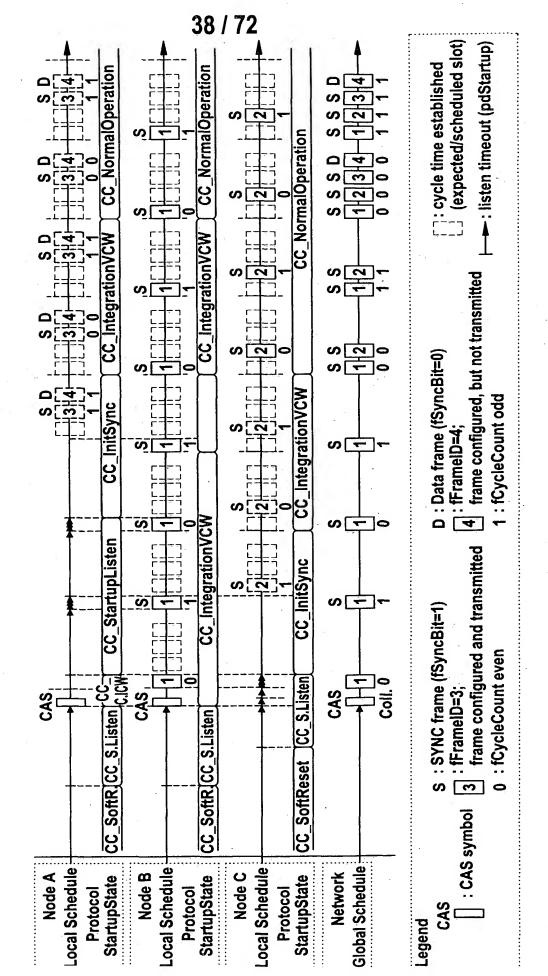


Fig. 66

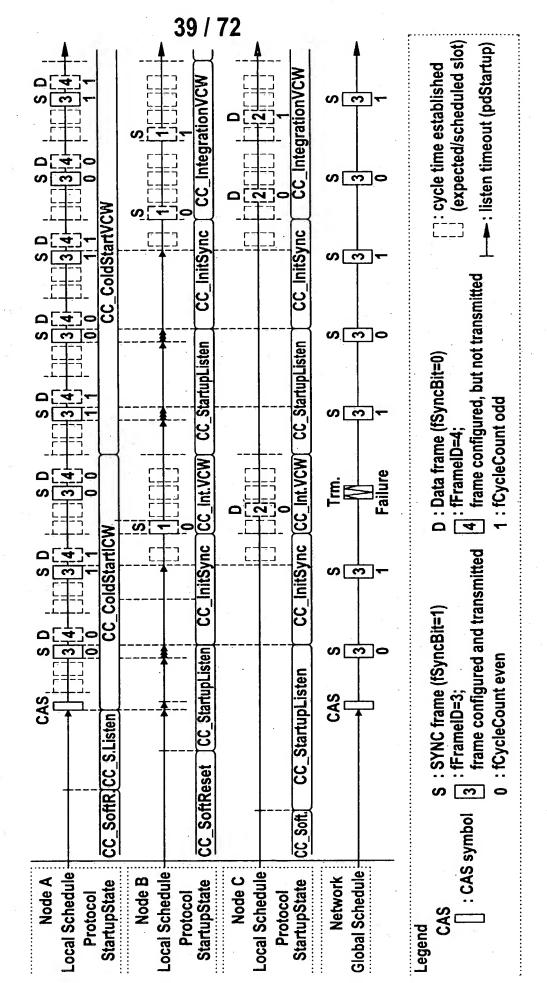


Fig. 67

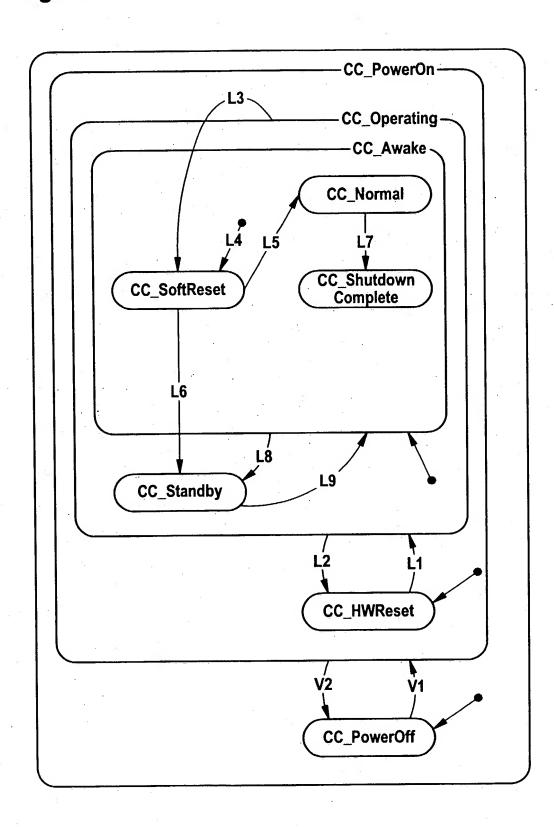


Fig. 68

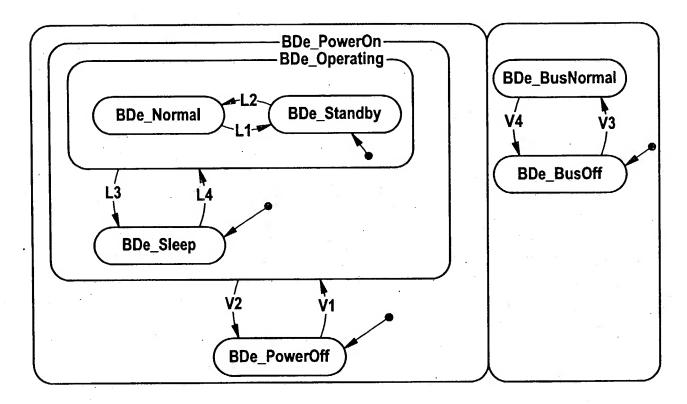


Fig. 69

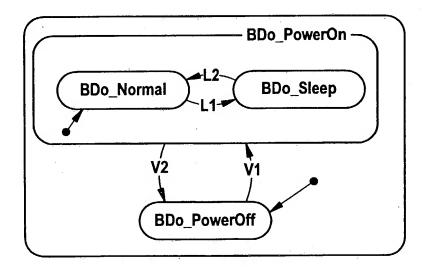


Fig. 70

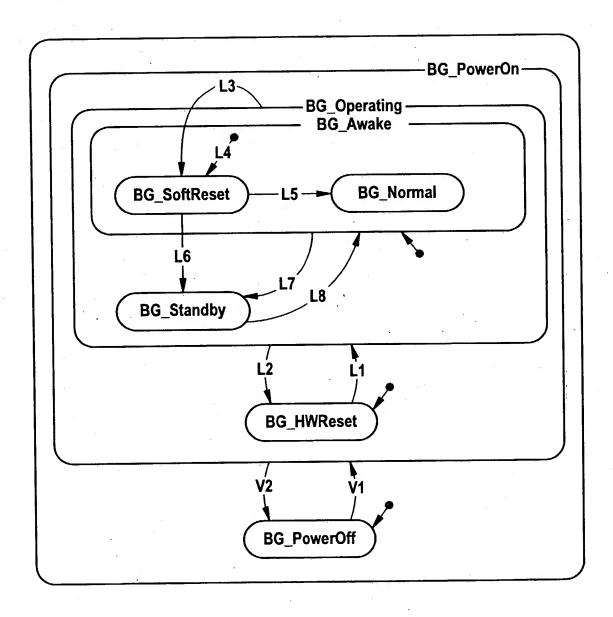


Fig. 71

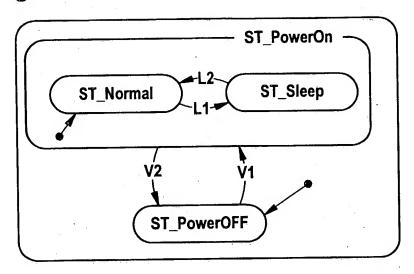


Fig. 72

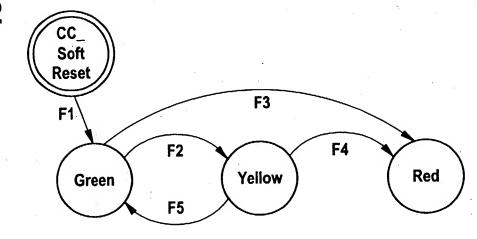
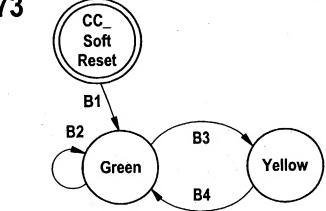


Fig. 73



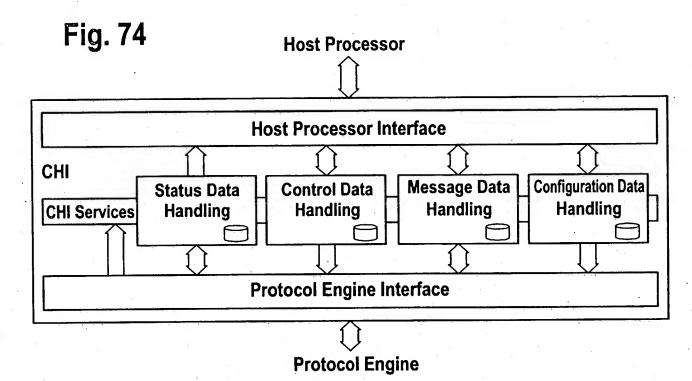


Fig. 75

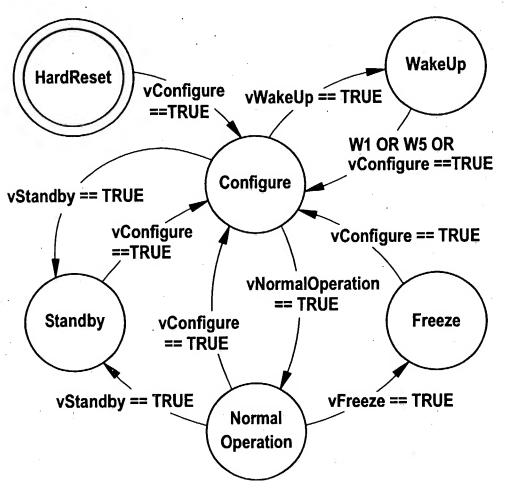


Fig. 76

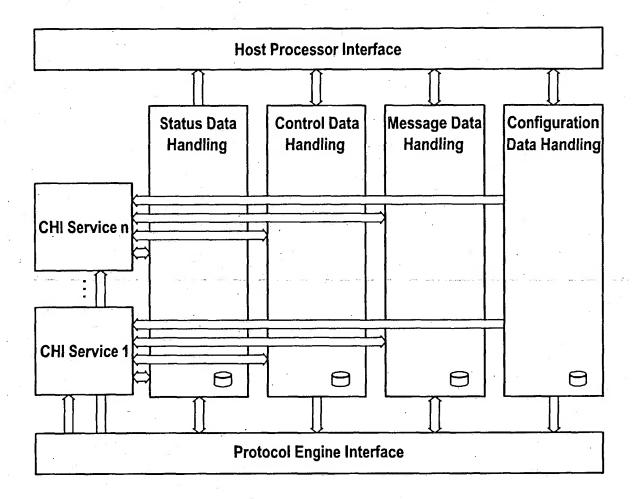


Fig. 77

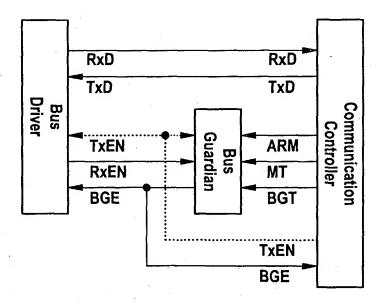


Fig. 78

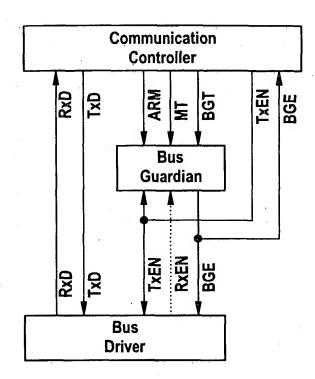


Fig. 79

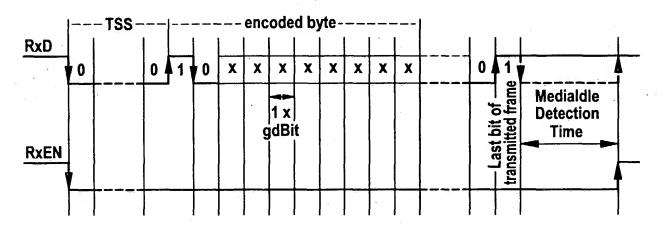


Fig. 80

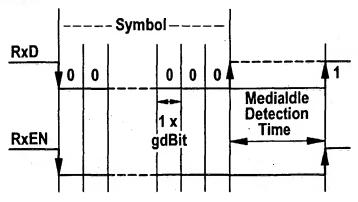


Fig. 81

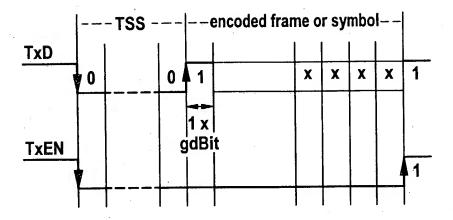
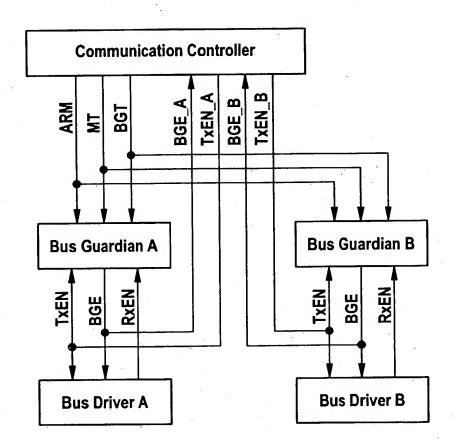
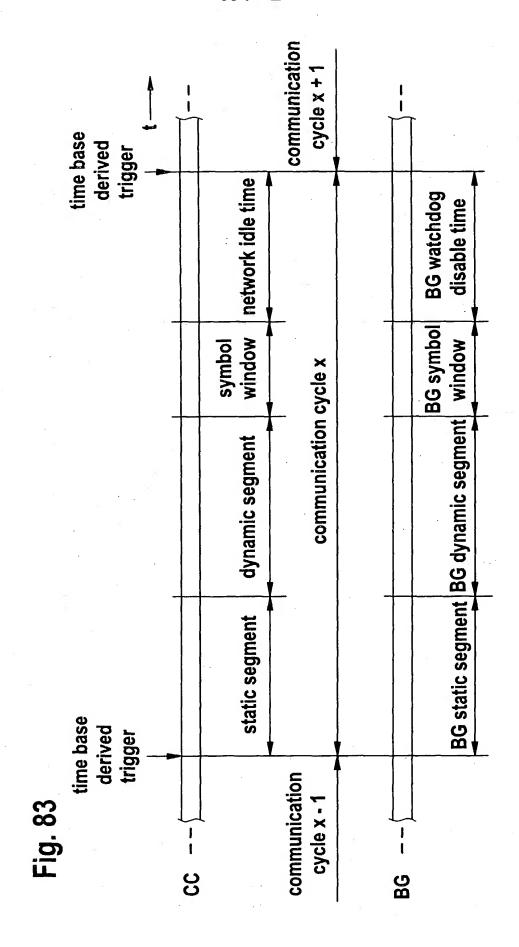
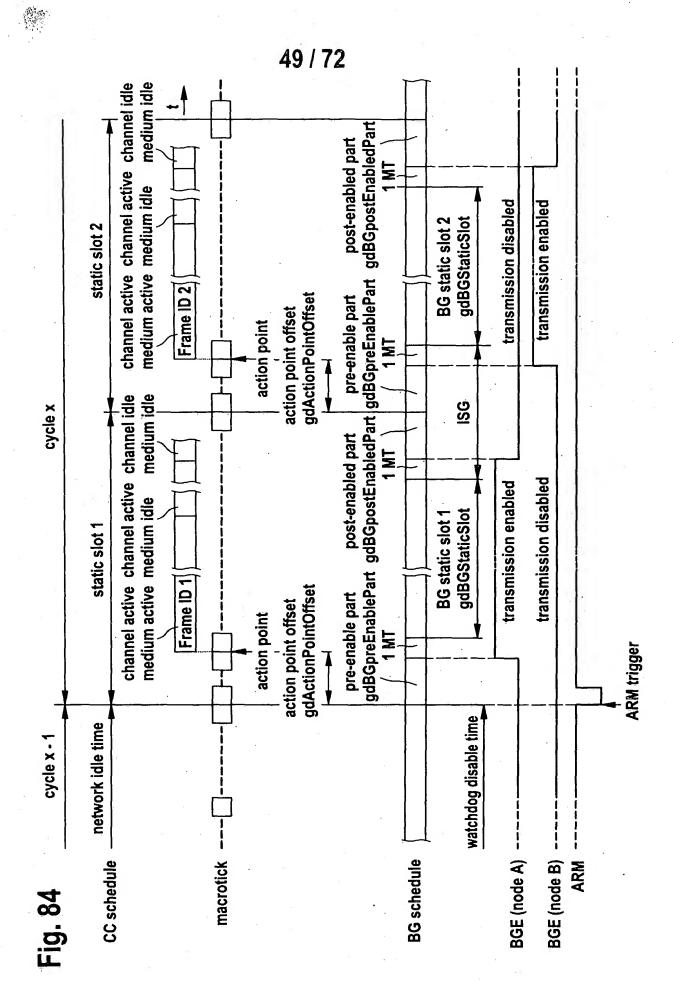
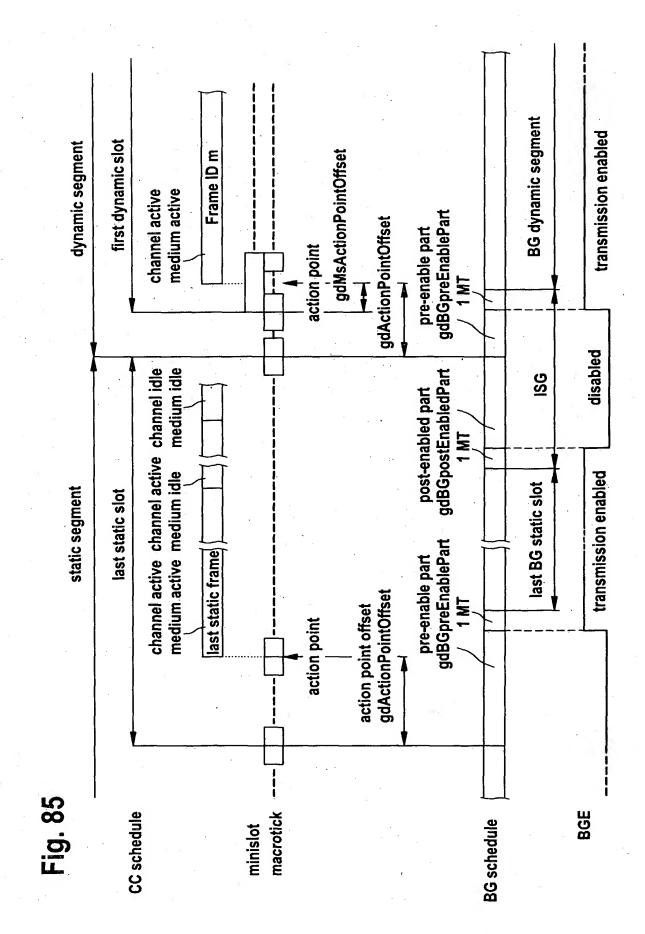


Fig. 82









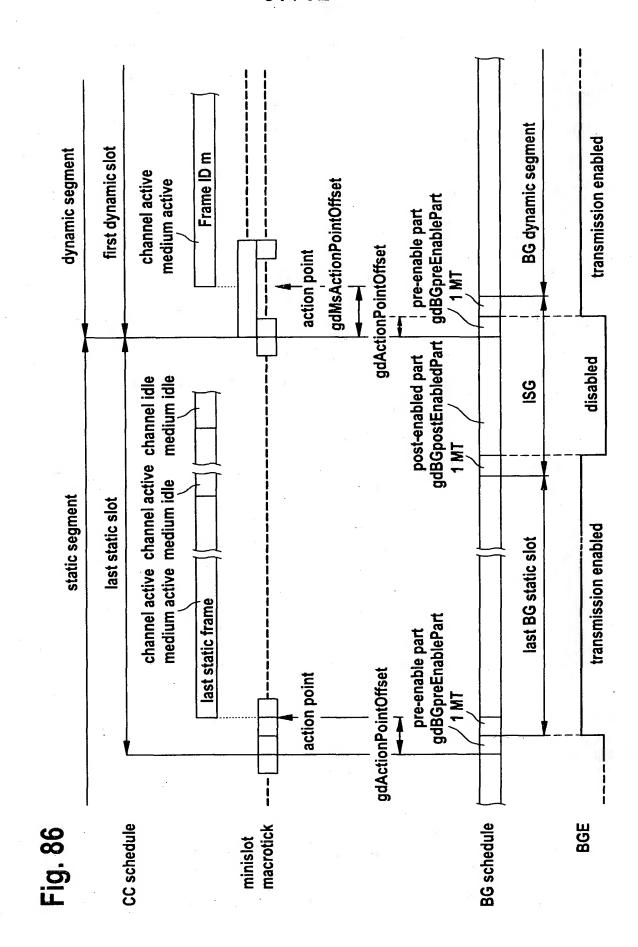


Fig. 87

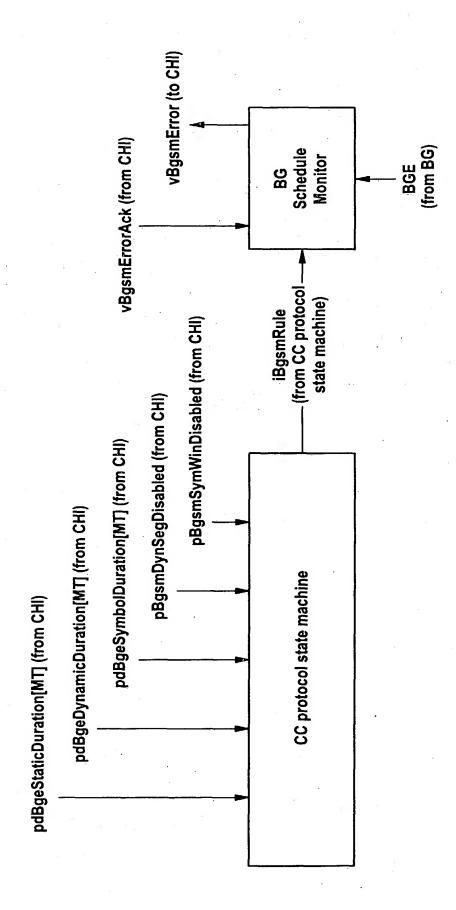
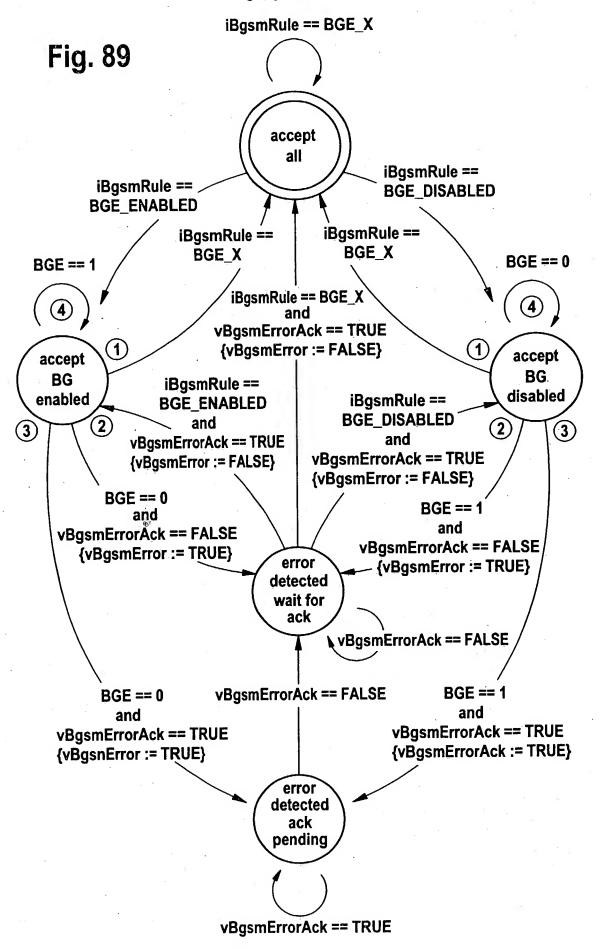


Fig. 88



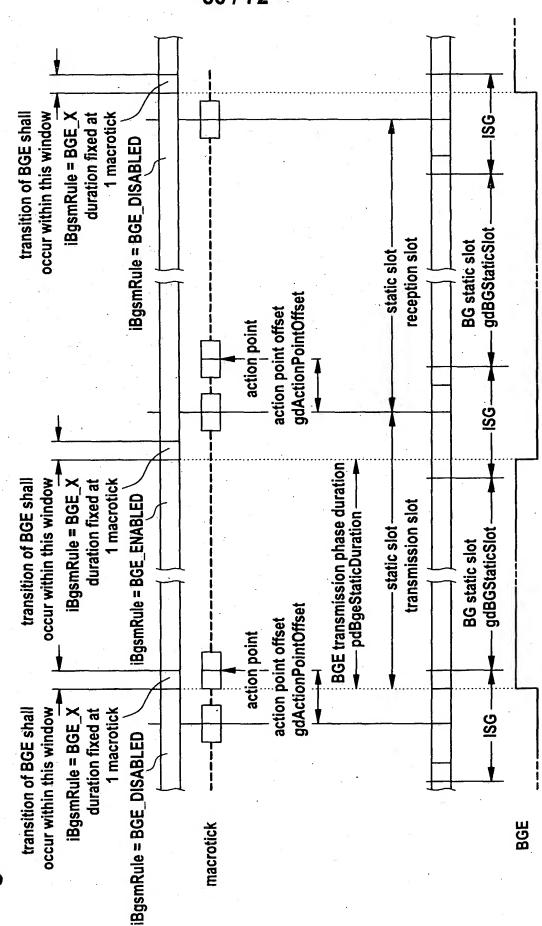


Fig. 90

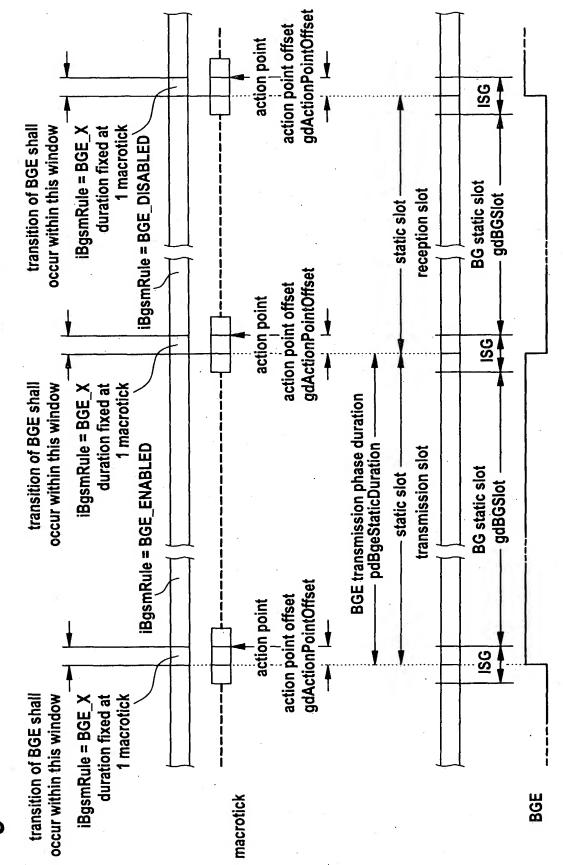
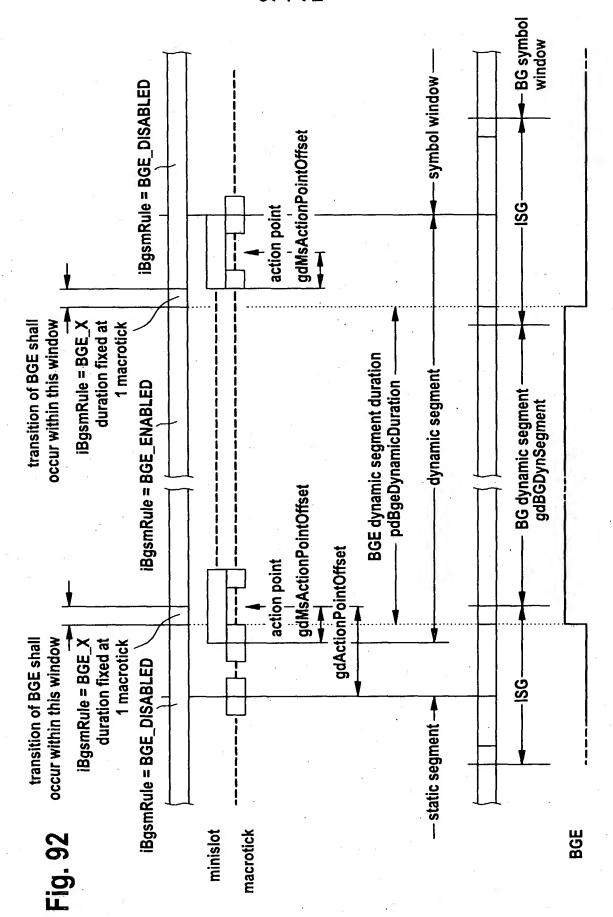


Fig. 91



macrotick minislot

BGE

Fig. 94

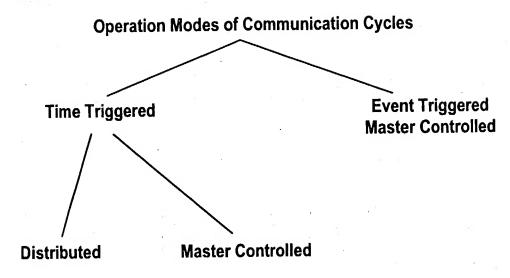
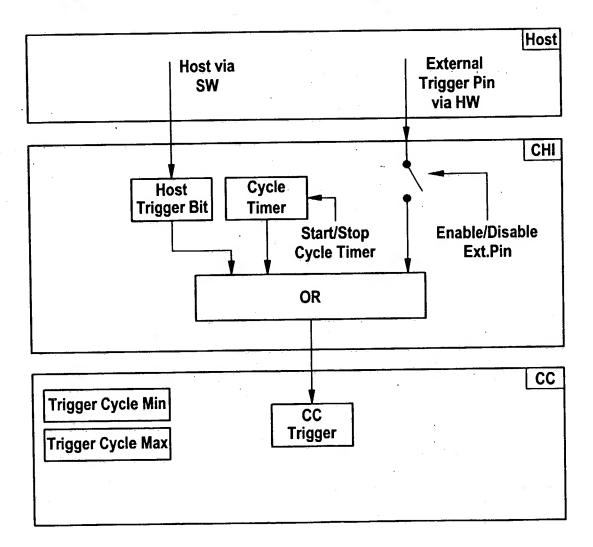
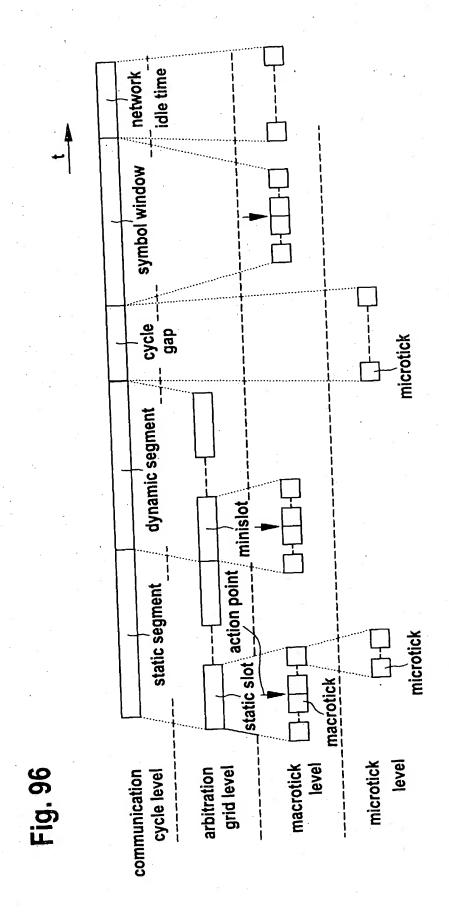
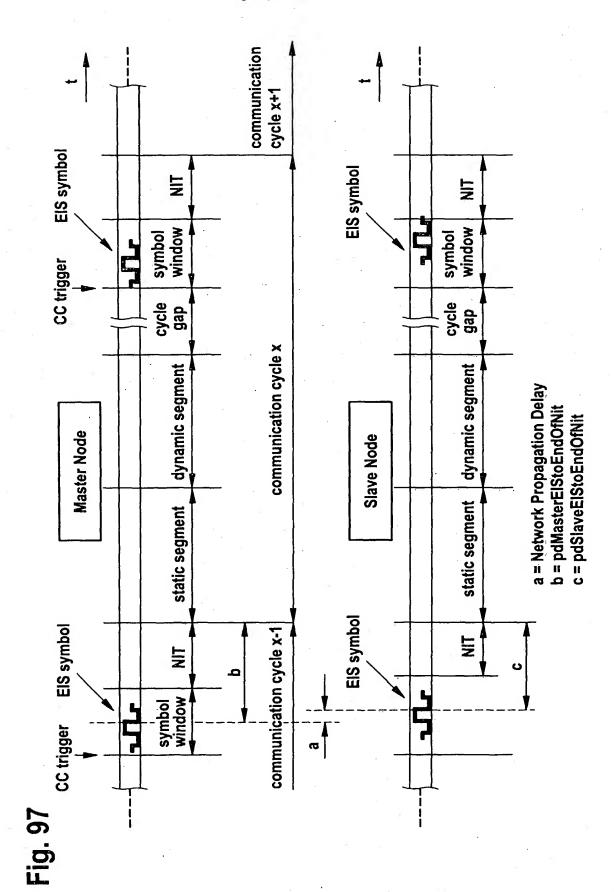


Fig. 95







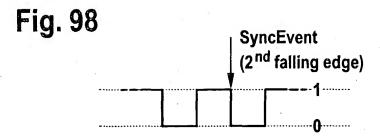
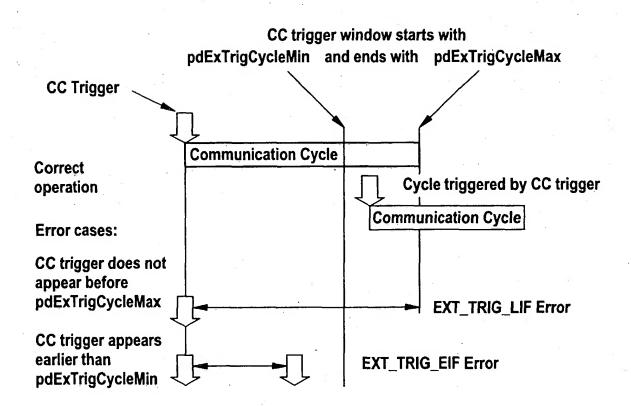
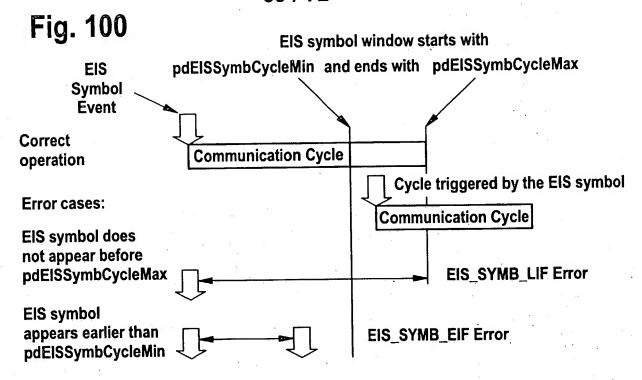


Fig. 99







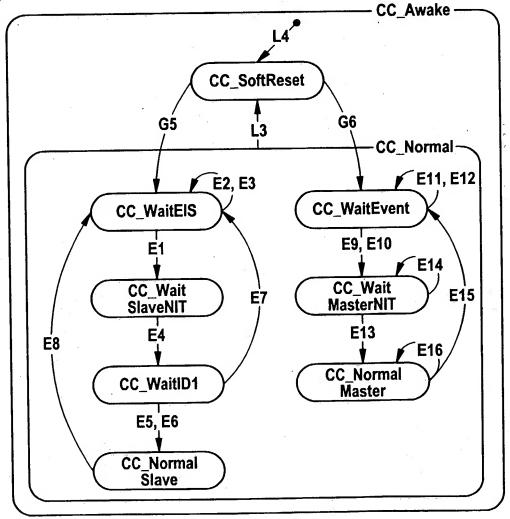
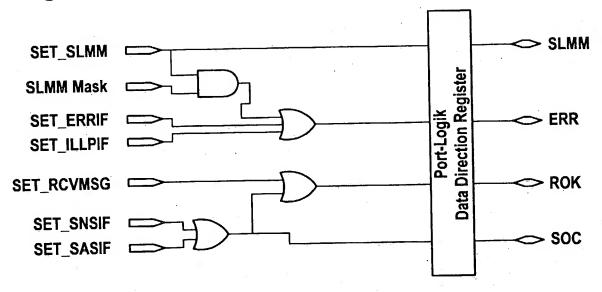


Fig. 102



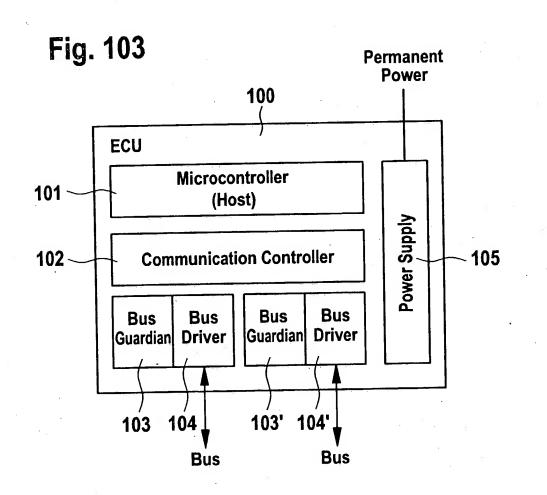


Fig. 104

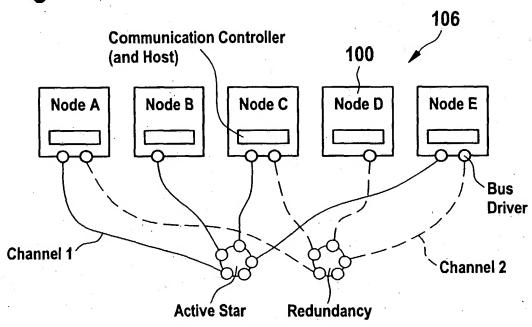


Fig. 105

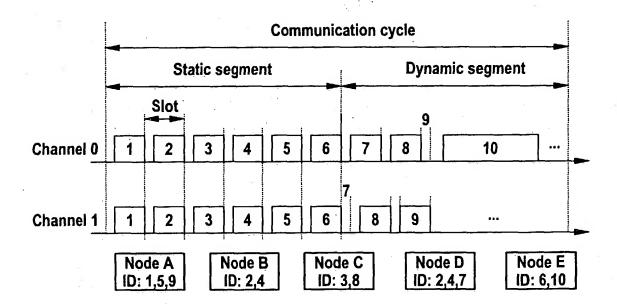


Fig. 106

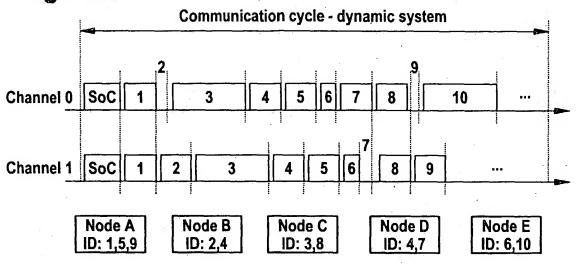
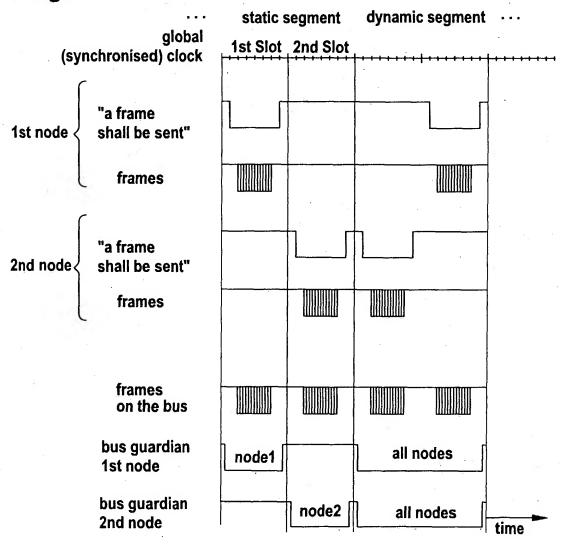


Fig. 107



<del></del>	-	Heade	r 5 B	ytes	Data 0 246 Bytes		CRC Cod 3 Bytes		
Res	Frame ID	Sync	DLC	H-CRC	NF	CYCO	Message ID	Data	CRC
4	12	1	7	9	1	6	16	01968	24

Fig. 109

Header 2 Bytes				Data 0 12 Bytes		CRC Code (15 Bit) + Frame Completion Bit			
					· · · · · · · · · · · · · · · · · · ·				
al	RES	LEN		DATA	CR	CFCB	]		
8	4	4		0 96	15	1			

Fig. 110

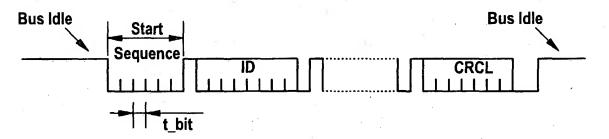


Fig. 111

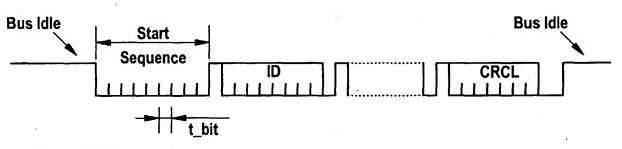


Fig. 112

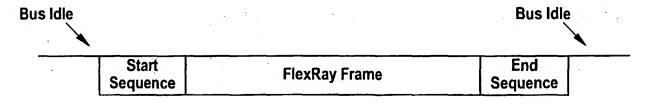


Fig. 113

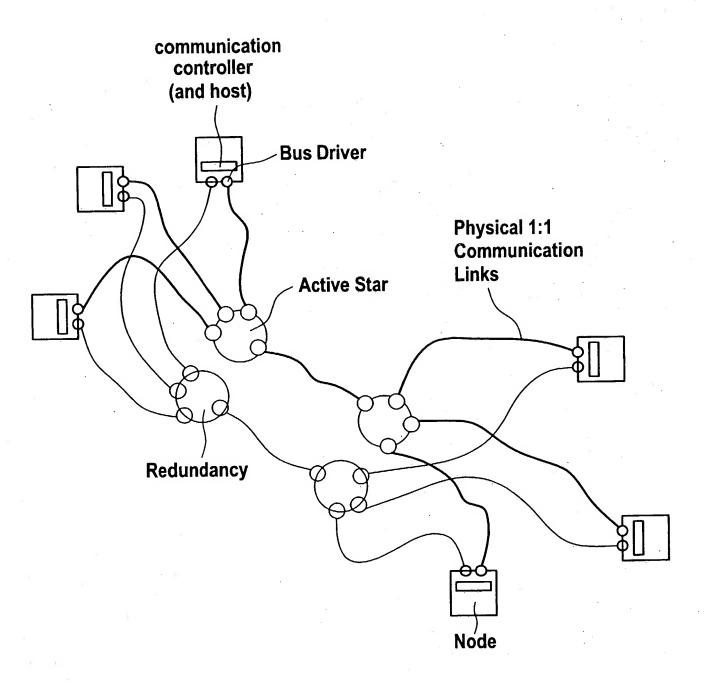
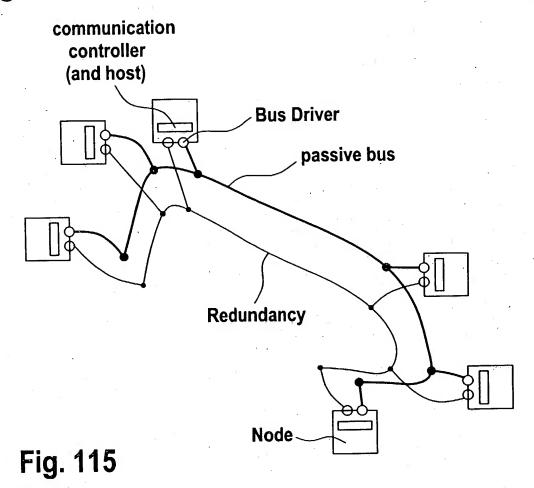


Fig. 114



communication controller (and host)

Bus Driver

several nodes connected to one branch

Redundancy

